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10/648,190	08/27/2003	Yusuke Yasukawa	1080.1128	3483
	7590 11/05/2007		EXAMINER	
STAAS & HALSEY LLP SUITE 700 1201 NEW YORK AVENUE, N.W. WASHINGTON, DC 20005			PATEL, HEMANT SHANTILAL	
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Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

		Application No.	Applicant(s)				
Office Action Summary		10/648,190	YASUKAWA ET AL.				
		Examiner	Art Unit				
		Hemant Patel	2614				
	The MAILING DATE of this communication app	ears on the cover sheet with the	correspondence address				
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Status							
1)⊠	Responsive to communication(s) filed on <u>04 September 2007</u> .						
2a) <u></u> ☐	This action is FINAL . 2b)⊠ This action is non-final.						
3)	/ -						
closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.							
Disposit	ion of Claims		·				
4)⊠	4)⊠ Claim(s) <u>1 and 3-10</u> is/are pending in the application.						
	4a) Of the above claim(s) is/are withdrawn from consideration.						
•	5) Claim(s) is/are allowed.						
	6) Claim(s) 1 and 3-10 is/are rejected. 7) Claim(s) is/are objected to. 8) Claim(s) are subject to restriction and/or election requirement.						
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8)[_]	claim(s) are subject to restriction and/o	r election requirement.	•				
Applicat	ion Papers						
9)□	9) ☐ The specification is objected to by the Examiner. 10) ☐ The drawing(s) filed on is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.						
10)							
	Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
	Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.						
11)	The oath or declaration is objected to by the Ex	caminer. Note the attached Office	e Action or form PTO-192.				
Priority (under 35 U.S.C. § 119						
•	Acknowledgment is made of a claim for foreign All b) Some * c) None of:	priority under 35 U.S.C. § 119(a)-(d) or (f).				
1. Certified copies of the priority documents have been received.							
2. Certified copies of the priority documents have been received in Application No							
	3. Copies of the certified copies of the prior		ved in this National Stage				
application from the International Bureau (PCT Rule 17.2(a)).							
* See the attached detailed Office action for a list of the certified copies not received.							
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	ce of References Cited (PTO-892) ce of Draftsperson's Patent Drawing Review (PTO-948)	4) Interview Summa Paper No(s)/Mail					
3) Infor	mation Disclosure Statement(s) (PTO/SB/08) er No(s)/Mail Date		Patent Application				

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DETAILED ACTION

Continued Examination Under 37 CFR 1.114

1. A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on September 4, 2007 has been entered. Claims 1, 3-10 are pending in this application.

Response to Amendment

2. Applicant's arguments with respect to claims 1, 3-10 have been considered but are most in view of the new ground(s) of rejection.

Claim Rejections - 35 USC § 103

- 3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 4. This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation

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under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).

5. Claims 1, 3-5, 7-10 are rejected under 35 U.S.C. 103(a) as being unpatentable over Skinner (US Patent No. 6,703,930 B2), and further in view of Bloomfield (US Patent No. 5,446,445), and further in view of Tanabe (US Patent No. 5,705,906).

Regarding claim 1, Skinner teaches of a mechanism, comprising:

a communication section which wirelessly connects to a communication line (Fig. 1, items 104, 112, 114; col. 5, II. 63-col. 6, II. 24);

a detection section (Fig. 1, item 104), which detects a plurality of user requests provided by a user (col. 7, II. 15-29, 62-67; controller detecting requests input by the user, the requests being to monitor certain events and report corresponding messages);

a storing section which stores telephone numbers, wherein each of the telephone number is associated with a respective emergency reporting item comprising a priority sequence, a designation mode of one of the user requests and an associated message (col. 7, II. 15-29; col. 7, II. 62-col. 9, II. 8; selective routing of messages to predetermined communications devices indicating association of telephone number and respective message, each message having an associated priority and a mode designated by the user to be used to indicate the occurrence of the requested event to the user); and

a telephone control section which causes the communication section to dial the telephone number stored in the storing section in response to the detection section

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detecting the respective request mode of one of the user requests (col. 7, II. 62-col. 8, II. 67; communicating user configured alerting message to the specific communication device i.e. dialing a cellular telephone number in response to the detection of user specified request event in any sensory mode and delivers the respective message in user designated mode i.e. visual, audible or mechanical), and then delivers the associated message stored in the storing section as a voice message to a receiver when the receiver responds (col. 7, II. 41-44; col. 9, II. 1-8).

Skinner does not teach of such a system in a free moving robot in which the user inputs request upon occurrence of an event.

However, in the same field of endeavor, Bloomfield teaches of a free moving robot performing surveillance monitoring and reporting abnormal conditions through wireless network to the remote user (Fig. 1; col. 4, II. 31-45; col. 6, II. 55-col. 7, II. 22; col. 8, II. 27-col. 9, II. 5; col. 22, II. 56-col. 23, II. 26).

It would have been obvious to a person of ordinary skill in the art at the time the invention was made to modify Skinner to be included as a surveillance mechanism in the free moving robot as taught by Bloomfield in order to provide "a rapid mobile detection system having a fire alarm, burglar alarm, gas leakage alarm, sound detecting alarm and the like, which needs no wiring work in and out of the house, and what's more, which is inexpensive to install as well as inexpensive to manufacture" (Bloomfield, col. 1, II. 65-col. 2, II. 2).

Skinner teaches of requests input by user (col. 7, II. 15-29; col. 7, II. 62-col. 9, II. 8) and Bloomfield also teaches of requests input by user (col. 25, II. 38-68, entering

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secret codes), and the robot detects these inputs. Skinner and Bloomfield are not clear that these requests are input upon occurrence of an event.

However, in the same field of endeavor, Tanabe teaches of a free moving robot (col. 1, II. 20-22) comprising a detection section which detects a plurality of user requests, provided by a user (Fig. 1, item 20 detecting different user requests), via an input device upon occurrence of an event (Fig. 1, item 10 used by the user to input requests by Jog key for the event of teaching operation for a robot, Deadman switch pressed when it is event time to put robot in operation to teach and Deadman switch released detecting event of danger from robot, Emergency stop switch operated in emergency event) (col. 1, II. 10-col. 4, II. 17).

It would have been obvious to a person of ordinary skill in the art at the time the invention was made to modify Skinner and Bloomfield to allow the user to input a request upon occurrence of an event as taught by Tanabe so that "If the robot in stationary state unintentionally starts its operation by any chance and approached the operator or if the operator senses imminent danger due to unexpected operation of the robot," "he stops the robot by releasing the depression of the deadman switch to secure his safety" (Tanabe, col. 1, II. 21-26).

Regarding claim 3, Bloomfield teaches of robotic system comprising a microphone and a speaker, and wherein the telephone control section causes, after delivering the associated message to the receiver, the communication section to be in a state of communication using the microphone and the speaker (col. 21, II. 1-col. 22, II. 67).

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Regarding claim 4, Skinner teaches an e-mail transmission function,

wherein the storing section further stores an e-mail address and a message associated with the e-mail (col. 7, II. 62-67; col. 8, II. 20-39; messages configure for email),

wherein the detection section detects a plurality of modes of requests (col. 7, II. 15-29, 62-67; controller detecting requests input by the user, the requests being to monitor certain events and report associated messages), and

wherein the telephone control section transmits, according to a mode of request detected by the detection section, the message associated with the e-mail address stored in the storing section (col. 8, II. 1-67; routing and delivering messages with email).

Regarding claim 5, Skinner teaches of the telephone control section that dials a telephone number according to a mode of request detected by the detection section when the detected mode of request is a telephone mode (col. 8, II. 1-67; routing and delivering messages by a mode of pager or a cellular phone as requested by the user to the controller).

Skinner is silent on sending an email message as a default backup if the receiver does not respond to a dialed call to deliver the message.

However, Skinner teaches of sending email alert messages for low priority messages (col. 8, II. 1-67).

It would have been obvious to a person of ordinary skill in the art at the time the invention was made to modify Skinner to use this low priority email messaging in case

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the user does not respond to dialed call for the high priority message (col. 8, II. 54-57; user not to be disturbed or bystanders in the vicinity) so that the message is at least recorded for later retrieval by the user to be read at his or her earliest convenience (col. 8, II. 30-32, 60-64).

Regarding claim 7, Skinner teaches of telephone control section delivering emergency message based on priority sequence associated with the designation mode of one of the user requests (col. 7, II. 62-col. 10, II. 8, delivering user configured message based on user specified associated priority and mode).

Regarding claim 8, Skinner teaches of using interface keyboard for user input (col. 4, II. 5-9) for configuring messages with associated requests, priority and designated modes (col. 7, II. 62-col. 8, II. 67).

Regarding claim 9, Skinner teaches of delivering recorded or synthesized human voice messages (col. 7, II. 41-44). Bloomfield also teaches of synthesized message delivered by telephone control section (col. 23, II. 18-25).

Regarding claim 10, Skinner teaches of a method to detect a user emergency request (col. 7, II. 62-67; user specified requests) and report an emergency in response (col. 7, II. 62-col. 8, II. 67; sending associated messages), the method comprising:

detecting from among any of a plurality of emergency requests stored in a memory in a priority sequence with an associated designation mode and telephone number, an emergency request (col. 7, II. 15-col. 8, II. 67); and

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dialing a telephone number associated with the emergency request in response to the respective designation mode of the detected emergency request, communicating wirelessly (col. 8, II. 1-col. 9, II. 8).

Skinner does not teach of this method in a free moving robot in which the user inputs request upon occurrence of an event.

However, in the same field of endeavor, Bloomfield teaches of a free moving robot performing surveillance monitoring and reporting abnormal conditions through wireless network to the remote user (Fig. 1; col. 4, II. 31-45; col. 6, II. 55-col. 7, II. 22; col. 8, II. 27-col. 9, II. 5; col. 22, II. 56-col. 23, II. 26).

It would have been obvious to a person of ordinary skill in the art at the time the invention was made to modify Skinner to be included as a method in the free moving robot system as taught by Bloomfield in order to provide "a rapid mobile detection system having a fire alarm, burglar alarm, gas leakage alarm, sound detecting alarm and the like, which needs no wiring work in and out of the house, and what's more, which is inexpensive to install as well as inexpensive to manufacture" (Bloomfield, col. 1, II. 65-col. 2, II. 2).

Skinner teaches of requests input by user (col. 7, II. 15-29; col. 7, II. 62-col. 9, II. 8) and Bloomfield also teaches of requests input by user (col. 25, II. 38-68, entering secret codes), and the robot detects these inputs. Skinner and Bloomfield are not clear that these requests are input upon occurrence of an event.

However, in the same field of endeavor, Tanabe teaches of a method for a free moving robot (col. 1, Il. 20-22) detecting a plurality of user emergency requests,

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provided by a user (Fig. 1, item 20 detecting different user requests), via an input device upon occurrence of an event (Fig. 1, item 10 used by the user to input requests by Deadman switch released when detecting event of danger from robot, Emergency stop switch operated in emergency event) (col. 1, II. 10-col. 4, II. 17).

It would have been obvious to a person of ordinary skill in the art at the time the invention was made to modify Skinner and Bloomfield to allow the user to input a request upon occurrence of an event as taught by Tanabe so that "If the robot in stationary state unintentionally starts its operation by any chance and approached the operator or if the operator senses imminent danger due to unexpected operation of the robot," "he stops the robot by releasing the depression of the deadman switch to secure his safety" (Tanabe, col. 1, II. 21-26).

6. Claims 1, 3-5, 7-10 are rejected under 35 U.S.C. 103(a) as being unpatentable over Kawakita (International Publication No. WO 99/67067), and further in view of Skinner, and further in view of Tanabe.

Regarding claim 1, Kawakita teaches of a robot including a moving mechanism for causing the robot to move freely, comprising:

a communication section (Fig. 2, item 25) which wirelessly (paragraph 0076, cordless telephone, paragraph 0211, mobile phone) connects to a communication line;

a detection section (Fig. 2, item 20, controller), which detects a plurality of user requests provided by a user (paragraph 0078, 0087-0088, request for visually express different words);

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a storing section (Fig. 2, item 20, paragraph 0043, memory in controller) which stores a message (paragraph 0221, response message) and associated telephone number (paragraph 0149, previously registered family or hospital); and

a telephone control section (Fig. 2, item 20, controller) which causes the communication section (Fig. 2, item 25) to dial the telephone number stored in the storing section (paragraph 0149, previously registered family or hospital) in response to the detection section detecting the request (paragraph 0149, detection of absence of reaction) provided by the user, and then delivers the message stored in the storing section (paragraph 0221, response message) as a voice message to a receiver when the receiver responds.

Kawakita does not teach of a plurality of messages respectively associated with the plurality of telephone numbers and the telephone control section dialing a telephone number according to a mode of request detected by the detection section, and delivering a message associated with the dialed telephone number, and does not teach of user inputting request upon occurrence of an event.

However, in the same field of endeavor, Skinner teaches of a communication section which wirelessly connects to a communication line (Fig. 1, items 104, 112, 114; col. 5, II. 63-col. 6, II. 24);

a detection section (Fig. 1, item 104), which detects a plurality of user requests provided by a user (col. 7, II. 15-29, 62-67; controller detecting requests input by the user, the requests being to monitor certain events and report corresponding messages);

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a storing section which stores telephone numbers, wherein each of the telephone number is associated with a respective emergency reporting item comprising a priority sequence, a designation mode of one of the user requests and an associated message (col. 7, II. 15-29; col. 7, II. 62-col. 9, II. 8; selective routing of messages to predetermined communications devices indicating association of telephone number and respective message, each message having an associated priority and a mode designated by the user to be used to indicate the occurrence of the requested event to the user); and

a telephone control section which causes the communication section to dial the telephone number stored in the storing section in response to the detection section detecting the respective request mode of one of the user requests (col. 7, II. 62-col. 8, II. 67; communicating user configured alerting message to the specific communication device i.e. dialing a cellular telephone number in response to the detection of user specified request event in any sensory mode and delivers the respective message in user designated mode i.e. visual, audible or mechanical), and then delivers the associated message stored in the storing section as a voice message to a receiver when the receiver responds (col. 7, II. 41-44; col. 9, II. 1-8).

It would have been obvious to a person of ordinary skill in the art to modify a robot as taught by Kawakita to include a plurality of telephone numbers associated with respective user configured messages with their respective priority and user designated mode as taught by Skinner so that "Multiple outgoing exception messages may be forwarded to multiple communication devices in accordance with a user-specified message profile" (Skinner, col. 1, II. 50-53) and "mode of the alerting message can be

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configured or selected in accordance with a physical impairment of the user" (Skinner, col. 9, II. 1-3), and "a high priority message can be routed to a pager by way of a pager network, and also to a cellular telephone by way of a cellular telephone network" (Skinner, col. 9, II. 16-18).

Kawakita teaches of requests input by the user (Paragraph 0212) and Skinner also teaches of requests input by user (col. 7, II. 15-29; col. 7, II. 62-col. 9, II. 8), and the robot detects these inputs. Kawakita and Skinner are not specific that these requests are input upon occurrence of an event.

However, in the same field of endeavor, Tanabe teaches of a free moving robot (col. 1, II. 20-22) comprising a detection section which detects a plurality of user requests, provided by a user (Fig. 1, item 20 detecting different user requests), via an input device upon occurrence of an event (Fig. 1, item 10 used by the user to input requests by Jog key for the event of teaching operation for a robot, Deadman switch pressed when it is event time to put robot in operation to teach and Deadman switch released detecting event of danger from robot, Emergency stop switch operated in emergency event) (col. 1, II. 10-col. 4, II. 17).

It would have been obvious to a person of ordinary skill in the art at the time the invention was made to modify Kawakita and Skinner to allow the user to input a request upon occurrence of an event as taught by Tanabe so that "If the robot in stationary state unintentionally starts its operation by any chance and approached the operator or if the operator senses imminent danger due to unexpected operation of the robot," "he stops

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the robot by releasing the depression of the deadman switch to secure his safety" (Tanabe, col. 1, II. 21-26).

Regarding claim 3, Kawakita teaches of a robot, further comprising a microphone (Fig. 1, item 10) and a speaker (Fig. 1, item 11), and wherein the telephone control section causes, after delivering the message to the receiver (Paragraphs 0079 – 0082, transmitting sound and images), the communication section to be in a state of communication using the microphone and the speaker (Paragraphs 0084, staying in video telephone conversation). It would be obvious to keep this microphone and speaker in a state of communication after delivering the associated stored message (Paragraphs 0212, 0221) to receive user information.

Regarding claim 4, Skinner teaches an e-mail transmission function, wherein the storing section further stores an e-mail address and a message

associated with the e-mail (col. 7, II. 62-67; col. 8, II. 20-39, messages with email),

wherein the detection section detects a plurality of modes of requests (col. 7, II. 15-29, 62-67; controller detecting requests input by the user, the requests being to monitor certain events and report corresponding messages), and

wherein the telephone control section transmits, according to a mode of request detected by the detection section, the message associated with the e-mail address stored in the storing section (col. 8, II. 1-67, routing and delivering messages with email).

Regarding claim 5, Skinner teaches of the telephone control section that dials a telephone number according to a mode of request detected by the detection section

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when the detected mode of request is a telephone mode (col. 8, II. 1-67; routing and delivering messages by a mode of pager or a cellular phone as requested by the user to the controller).

Skinner is silent on sending an email message as a default backup if the receiver does not respond to a dialed call to deliver the message.

However, Skinner teaches of sending email alert messages for low priority messages (col. 8, II. 1-67).

It would have been obvious to a person of ordinary skill in the art at the time the invention was made to modify Skinner to use this low priority email messaging in case the user does not respond to dialed call for the high priority message (col. 8, II. 54-57; user not to be disturbed or bystanders in the vicinity) so that the message is at least recorded for later retrieval by the user to be read at his or her earliest convenience (col. 8, II. 30-32, 60-64).

Regarding claim 7, Skinner teaches of telephone control section delivering emergency message based to priority sequence associated with the designation mode of one of the user requests (col. 7, II. 62-col. 10, II. 8, delivering user configured message based on user specified priority and mode).

Regarding claim 8, Skinner teaches of using interface keyboard for user input (col. 4, II. 5-9) for configuring messages with associated requests, priority and designated modes (col. 7, II. 62-col. 8, II. 67).

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Regarding claim 9, Skinner teaches of delivering recorded or synthesized human voice messages (col. 7, II. 41-44). Kawakita also teaches of synthesized message delivered by telephone control section (paragraph 0221, response message).

Regarding claim 10, Kawakita teaches of a method of having a free moving robot to detect a user emergency request (paragraph 0078, 0087-0088, request to express different words; paragraph 0202, requests to monitor different conditions of the house) and report an emergency in response (paragraphs 0132, 0202, 0205, 0221, response message), the method comprising:

detecting from among any of a plurality of emergency requests stored in a memory with an associated telephone number, an emergency request (paragraph 0202, detect particular condition of the house, telephone numbers to call user, police, fire department); and

dialing a telephone number associated with the emergency request in response to the detected emergency request, communicating wirelessly (paragraph 0202, 0205; calling the user, fire, police, hospital).

Kawakita does not teach of a plurality of requests in a priority sequence associated with a designation mode and telephone number and the telephone control section dialing a telephone number according to a designated mode of request associated with the dialed telephone number, and does not teach of user inputting request upon occurrence of an event.

However, in the same field of surveillance, Skinner teaches of a method to detect a user emergency request (col. 7, II. 62-67; user specified requests) and report an

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emergency in response (col. 7, II. 62-col. 8, II. 67; sending associated messages), the method comprising:

detecting from among any of a plurality of emergency requests stored in a memory in a priority sequence with an associated designation mode and telephone number, an emergency request (col. 7, II. 15-col. 8, II. 67); and

dialing a telephone number associated with the emergency request in response to the respective designation mode of the detected emergency request, communicating wirelessly (col. 8, II. 1-col. 9, II. 8).

It would have been obvious to a person of ordinary skill in the art to modify a robot as taught by Kawakita to include a plurality of telephone numbers associated with respective user configured requests and corresponding messages with their respective priority and user designated mode as taught by Skinner so that "Multiple outgoing exception messages may be forwarded to multiple communication devices in accordance with a user-specified message profile" (Skinner, col. 1, II. 50-53) and "mode of the alerting message can be configured or selected in accordance with a physical impairment of the user" (Skinner, col. 9, II. 1-3), and "a high priority message can be routed to a pager by way of a pager network, and also to a cellular telephone by way of a cellular telephone network" (Skinner, col. 9, II. 16-18).

Kawakita teaches of requests input by the user (Paragraph 0212) and Skinner also teaches of requests input by user (col. 7, II. 15-29; col. 7, II. 62-col. 9, II. 8), and the robot detects these inputs. Kawakita and Skinner are not specific that these requests are input upon occurrence of an event.

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However, in the same field of endeavor, Tanabe teaches of a method for a free moving robot (col. 1, II. 20-22) detecting a plurality of user emergency requests, provided by a user (Fig. 1, item 20 detecting different user requests), via an input device upon occurrence of an event (Fig. 1, item 10 used by the user to input requests by Deadman switch released when detecting event of danger from robot, Emergency stop switch operated in emergency event) (col. 1, II. 10-col. 4, II. 17).

It would have been obvious to a person of ordinary skill in the art at the time the invention was made to modify Kawakita and Skinner to allow the user to input a request upon occurrence of an event as taught by Tanabe so that "If the robot in stationary state unintentionally starts its operation by any chance and approached the operator or if the operator senses imminent danger due to unexpected operation of the robot," "he stops the robot by releasing the depression of the deadman switch to secure his safety" (Tanabe, col. 1, II. 21-26).

7. Claim 6 is rejected under 35 U.S.C. 103(a) as being unpatentable over Kawakita, Skinner and Tanabe as applied to claim 1 above, and further in view of Kataoka (US Patent Application Publication No. 2002/0181723 A1).

Regarding claim 6, Kawakita teaches of a robot, further comprising:

a microphone (Fig. 1, item 10);

a voice recognition section (Paragraphs 0087-0088, recognize speech)

recognizing requests (Paragraph 0212); and

a movement control section (Fig. 2, item 20).

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based on a voice received by the microphone and moving the robot closer to a speaker

Kawakita, Skinner and Tanabe do not teach of recognizing that the robot is called

who is calling the robot.

However, in the same field of endeavor, Kataoka teaches of a means for

controlling a robot to move naturally upon its motion in voice recognition (paragraph

0017).

It would have been obvious to a person of ordinary skill in the art to modify a

robot as taught by Kawakita, Skinner and Tanabe to include a means of moving a robot

in response to voice recognition as taught by Kataoka in order to recognize sound of the

person being monitored (Kawakita, Paragraph 0147) and move closer to that person

(Kawakita, Paragraphs 0148-0149) upon recognition of request (Kawakita, Paragraph

0212).

Conclusion

8. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

US Patent No. 5,369,346

Takahashi

US Patent Application Publication No. 2002/0183598

Teraura

US Patent No. 6,584,375

Bancroft

US Patent Application Publication No. 2004/0019406

Wang

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Any inquiry concerning this communication or earlier communications from the examiner should be directed to Hemant Patel whose telephone number is 571-272-8620. The examiner can normally be reached on 8:00 AM - 5:00 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Fan Tsang can be reached on 571-272-7547. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Hemant Patel Examiner Art Unit 2614

HSP

SUBERVISORY PATENT EXAMINER TECHNOLOGY CENTER 2600